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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/764,725	01/17/2001	Richard L. Maliszewski	42390P6532C	8454
8791	7590 10/18/2004		EXAM	INER
	SOKOLOFF TAYLO	KISS, ERIC B		
12400 WILSHIRE BOULEVARD SEVENTH FLOOR LOS ANGELES, CA 90025-1030			ART UNIT	PAPER NUMBER
			2122	

DATE MAILED: 10/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	09/764,725	MALISZEWSKI, RICHARD L.	
Office Action Summary	Examiner	Art Unit	
	Eric B. Kiss	2122	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C.§ 133).	
Status			
1) Responsive to communication(s) filed on 18 A	ugust 2004.		
2a) This action is FINAL . 2b) ☑ This	action is non-final.		
3) Since this application is in condition for allowar closed in accordance with the practice under E			
Disposition of Claims			
4) ☐ Claim(s) 1,3-5,7-9 and 11-16 is/are pending in 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,3-5,7-9 and 11-16 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/o	wn from consideration.		
Application Papers		•	
9) The specification is objected to by the Examine 10) The drawing(s) filed on 23 April 2001 is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct	☑ accepted or b)☐ objected to drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).	
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document: 2. Certified copies of the priority document: 3. Copies of the certified copies of the priority document: application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati nty documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:		

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 18 August 2004 has been entered. Claims 1, 3-5, 7-9, and 11-16 are pending.

Response to Arguments

2. Applicant's arguments filed 18 August 2004, have been fully considered but they are not persuasive. Applicant's newly recited claim limitations are addressed as set forth in the rejection below.

Claim Rejections - 35 USC § 102

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

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4. Claims 13-16 are rejected under 35 U.S.C. 102(b) as being anticipated by International Publication No. WO 97/04394 to Drake.

As per claim 13, Drake discloses transferring control to a software test module when a second instruction having an instruction address in the instructions is executed by a data processing device, the second instruction replacing a non-identical first instruction comprising a target address (see, for example, page 16, lines 20-32), the first instruction to invoke a function or procedure (the designated Part B, 94 in Fig. 9, is part of code area 72 which contains the machine instructions for operation on the x86 microprocessor; see p. 15, lines 36-38 and p. 16, lines 20-25), and the first instruction comprising more bytes than the second instruction (the designated Part B, 94 in Fig. 9, is specifically chosen because it is greater in size than the "netsafe 1 code"; see p. 16, lines 22-25);

a test module comprising a table comprising a target address of the replaced first instruction (see, for example, page 16, lines 26-32); and test instructions to produce a test result by performing a test on the instructions, the test module to locate the target address in the table and to transfer control to the target address if the test result indicates the instructions are to proceed (see, for example, page 18, line 28, through page 19, line 6).

As per claim 14, Drake further discloses loading the test module (see, for example, page 15, lines 8-11).

As per claim 15, Drake further discloses the test module comprising instructions to set an exception handler to transfer control to the test instructions when the second instruction is executed by the data processing device (see, for example, page 19, lines 14-18).

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As per claim 16, Drake further discloses the test module comprising instructions moved from the instructions, the instructions moved to make room in the instructions for the instructions to load the test module (see, for example, page 16, lines 26-32).

Claim Rejections - 35 USC § 103

- 5. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.
- 6. Claims 1, 3-5, 7-9, 11, and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over International Publication No. WO 97/04394 to Drake in view of U.S. Patent No. 5,966,541 to Agarwal.

As per claims 1, 5, and 9, *Drake* discloses generating a software test module to produce a test result by performing a test on instructions (see, for example, page 14, line 34, through page 15, lie 5; and page 16, line 6, through page 17, line 23); in the instructions, replacing a first instruction comprising a target address, **the first instruction to invoke a function or procedure** (the designated Part B, 94 in Fig. 9, is part of code area 72 which contains the machine instructions for operation on the x86 microprocessor; see p. 15, lines 36-38 and p. 16, lines 20-25), and the first instruction comprising more bytes than the second instruction (the designated Part B, 94 in Fig. 9, is specifically chosen because it is greater in size than the "netsafe 1 code"; see p. 16, lines 22-25), with a second non-identical instruction having an

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instruction address in the instructions, the second instruction to transfer control to the test module (see, for example, page 16, lines 20-32); and storing the target address encrypted in a table, the test module to locate the target address in the table and to set an execution address to the target address if the test result indicates the instructions are to proceed (see, for example, page 15, lines 8-11; and page 17, line 21, through page 18, line 27). Drake fails to expressly disclose compacting the instructions to eliminate a hole created by replacing the first instruction with the second instruction. However, Agarwal teaches that it is known to shift a set of instructions in conjunction with the act of inserting or removing an instruction (see, for example, column 7, lines 20-26; note that replacing an instruction is the equivalent of inserting a new instruction and deleting an old instruction). Therefore, it would have been obvious to one having ordinary skill in the computer art at the time the invention was made to modify the invention of Drake to include compacting instructions to eliminate a hole created by replacing an instruction. One would be motivated to do so to prevent invalid op codes, as an artifact of a replaced instruction, from remaining in a set of instructions.

As per claims 3, 7, and 11, *Drake* further discloses corresponding the target address with the instruction address in the encrypted table (see, for example, page 18, line 28, through page 19, line 6).

As per claims 4, 8, and 12, *Drake* further discloses profiling the instructions to identify the first instruction as an instruction to replace (see, for example, page 16, lines 20-25).

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Conclusion

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Eric B. Kiss whose telephone number is (703) 305-7737. One or around October 28, 2004, Technology Center 2100 will be relocated to Alexandria, Virginia, and Examiner Kiss's telephone number will change to (571) 272-3699. The Examiner can normally be reached on Tue. - Fri., 7:15 am - 4:45 pm. The Examiner can also be reached on alternate Mondays.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Tuan Dam, can be reached on (703) 305-4552. On or around October 28, 2004, Technology Center 2100 will be relocated to Alexandria, Virginia, and Tuan Dam's phone number will change to (571) 272-3695. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EBK / ESK October 8, 2004

> Chamba Das Chamelic. Das Primary examiner

10/14/04